

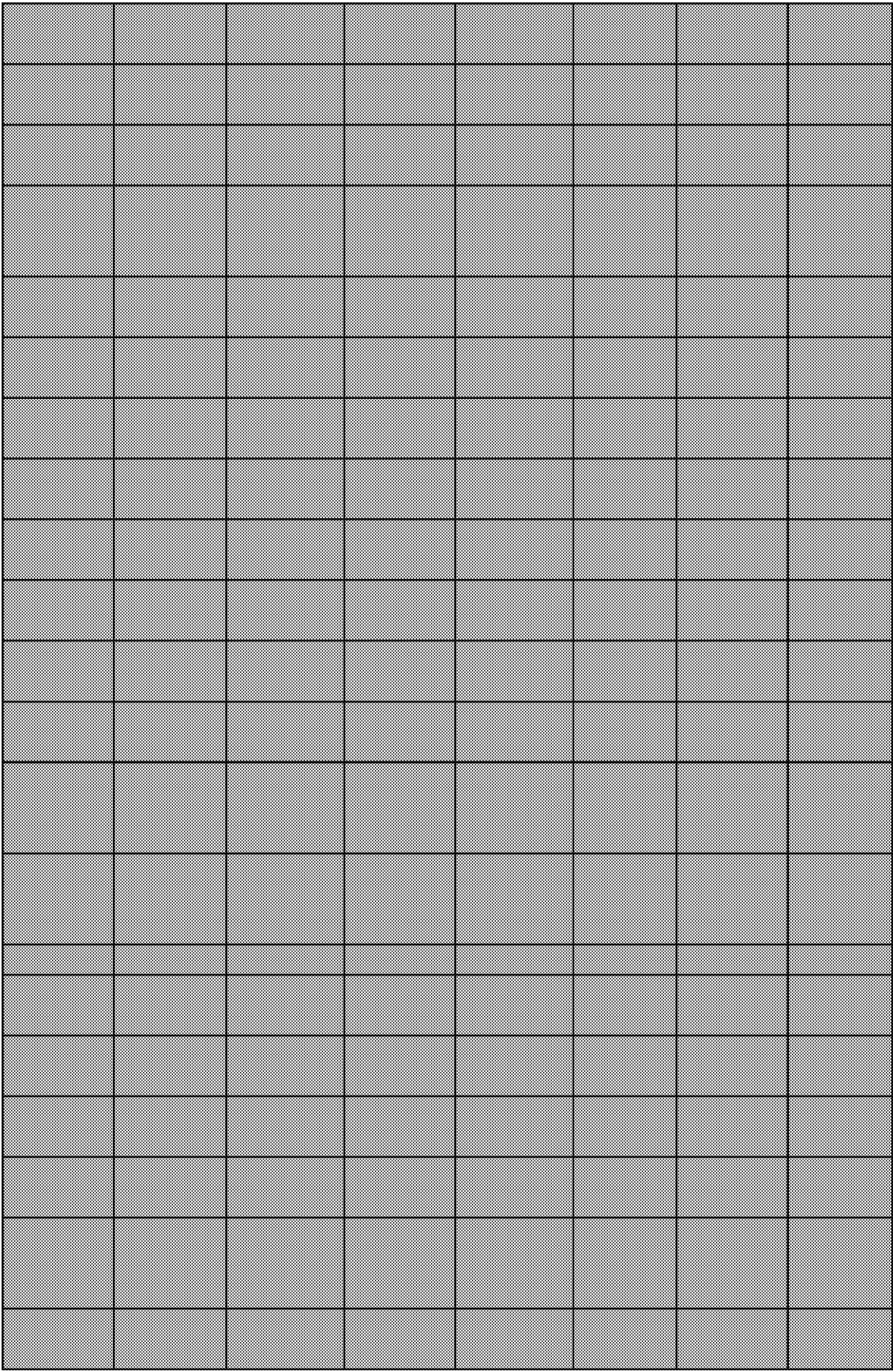
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| Oxidative stress is a potential component of the final common pathway leading to apoptosis following many diverse stimuli |
| Precursor human manganese-dependent superoxide dismutase (hMn-SOD) was expressed using the baculovirus system |
| Stressed mammalian cells up-regulate heme oxygenase 1 (Hmox1; EC 1.14.99.3), which catabolizes heme to biliverdin, carbon monoxide, and ferrous iron |
| Induction of adaptive response by conditioning doses of paraquat (PQ) and hydrogen peroxide (H ₂ O ₂) in embryonic shock |
| Several lines of evidence suggest that free radical mediated injury and oxidative stress may lead to muscle necrosis in the |
| Paraquat is a pneumotoxin that causes lung injury by enhancing oxidative stress; however, the cellular responses to these |
| The major physiological role of glucose-6-phosphate dehydrogenase (G6PD) is to provide NADPH, which is required for re |
| Because lung cells are inevitably exposed to chemicals, drugs and mineral particles, they are appropriate target cells for i |
| The inhibition of glutathione (GSH) synthesis by L-buthionine-SR-sulfoximine (BSO) causes aggravation of hepatotoxicity i |
| The effects of L-carnitine, a mitochondrial carrier of fatty acids, on paraquat (PQ) cytotoxicity in freshly isolated rat hepat |
| The differentiation of chloroplasts into chromoplasts involves a series of biochemical changes that culminate with the int |
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| The HIV-1 transcriptional regulatory protein Tat is a pleiotropic factor that represses expression of the human Mn-superoxide |
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| The mitochondrion imports and processes the vast majority of the proteins that constitute its structural elements and me |
| Animal experiments allow the study of oxidative DNA damage in target organs and the elucidation of dose-response rela |
| Infection of many cultured cell types with Sindbis virus (SV), an alphavirus, triggers apoptosis through a commonly utilize |
| OBJECTIVE: To examine whether or not estrogens induced the expression of protein thiol/disulfide oxidoreductases such |
| Methylviologen compounds are normally used in agronomy as herbicides. They cause an overproduction of reactive oxyg |
| Recent results have shown that apoptosis is an important feature of the normal and injured lung epithelium, but little co |
| We designed a new eukaryotic expression vector for secretable superoxide dismutase (SOD), which expresses human SO |
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| To clarify the molecular mechanisms of nitric oxide (NO) signalling, we examined the NO-responsive proteins in cultured |

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| Animal cells generate hydrogen peroxide as a byproduct of energy metabolism. In the presence of reduced metals H(2)O |
| BACKGROUND: Bax is a member of the Bcl-2 family and induces apoptosis of mammalian cells. We have shown that a tra |
| Yeast cells exposed to adverse conditions employ a number of defense mechanisms in order to respond effectively to the |
| Mutations in the dystrophin gene that lead to the expression of truncated forms of the dystrophin protein cause muscular |
| Evidence from a number of studies suggests that the mechanism by which tumor necrosis factor (TNF) kills transformed c |
| Genomic instability has been associated with cancer development. Oxidative DNA damage seems to contribute to geneti |
| Thromboxane A(2) (TxA(2)) preferentially constricts the renal afferent arteriole. Nitric oxide (NO) modulates vasoconstric |
| Although <i>Rhodococcus</i> spp. strains are able to degrade methoxyphenols by enzymatic means, the contact with veratric a |
| To clarify the mechanism of cephalosporin nephrotoxicity, the effects of cephaloridine (CLD), a nephrotoxic cephalospori |
| Loss of function of the tumor suppressor protein p53 represents a very frequent event in human carcinogenesis, but the |
| A powerful artificial anti-apoptotic factor will be useful for medical applications of the future therapies for many diseases |
| The protective effects of green tea polyphenols on paraquat-induced genotoxicity in cultured cells were studied. (-)-Epig |
| It has previously been shown that hyperoxia induces nonapoptotic cell death in cultured lung epithelial cells, whereas hy |
| N-Acetylcysteine (NAC) is a drug bearing multiple preventive properties that can inhibit genotoxicity and carcinogenicity. |
| Intracellular production of active oxygen in the green alga <i>Haematococcus pluvialis</i> was studied by measuring the capaci |
| Oxidized and cross-linked proteins tend to accumulate in aging cells. Declining activity of proteolytic enzymes, particularl |
| Mouse astrocytes deficient in the mitochondrial form of superoxide dismutase do not grow in culture under 20% atmosp |
| The mitochondrion depends upon the import of cytosolically synthesized preproteins for most of the proteins that comp |
| The effect of hypoxia (80 pHg) and simultaneously applied paraquat (1,1'-dimethyl-4,4-bipyridinium dichloride) was inve |
| We have investigated the effect of free radicals on the electrical gap junctions between horizontal cells in the carp retina |
| Paraquat (PQ) is a well-known pneumotoxicant that exerts its toxic effect by elevating intracellular levels of superoxide. I |
| Recent findings in our laboratory suggested that in citrus cells the salt induction of phospholipid hydroperoxide glutathio |

